PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

Commissioner US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24 Arlington, VA 22202

ETATS-UNIS D'AMERIQUE in its capacity as elected Office

Date of mailing (day/month/year) 08 May 2001 (08.05.01)

International application No. PCT/NO00/00228

International filing date (day/month/year)

30 June 2000 (30.06.00)

Applicant's or agent's file reference Opti47PCT

Priority date (day/month/year) 30 June 1999 (30.06.99)

Applicant

JACKSON, Thomas

The designated Office is hereby notified of its election made:
X in the demand filed with the International Preliminary Examining Authority on:
24 January 2001 (24.01.01)
in a notice effecting later election filed with the International Bureau on:
The stanting V
The election X was was not
made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Charlotte ENGER

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

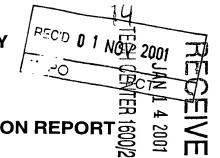
PATENT COOPERATION TREAT /

	From the INTERNATIONAL BUREAU		
PCT	То:		
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 12 April 2001 (12.04.01)	LEISTAD, Geirr, I. Thin Film Electronics ASA P.O. Box 1872 Vika N-0124 Oslo NORVÈGE		
Applicant's or agent's file reference Opti47PCT	IMPORTANT NOTIFICATION		
International application No. PCT/NO00/00228	International filing date (day/month/year) 30 June 2000 (30.06.00)		
The following indications appeared on record concerning: the applicant	the agent the common representative		
Name and Address LEISTAD, Geirr, I. Thin Film Electronics ASA P.O. Box 1872 Vika	State of Nationality State of Residence Telephone No. +47 23 23 84 40		
N-0124 Oslo Norway	Facsimile No. +47 23 23 84 41		
	Teleprinter No.		
2. The International Bureau hereby notifies the applicant that the the person the name the add			
Name and Address	State of Nationality State of Residence		
LEISTAD, Geirr, I. Thin Film Electronics ASA P.O. Box 1872 Vika N-0124 Oslo	Telephone No. +47 2301 1240		
Norway	Facsimile No. +47 2301 1241		
	Teleprinter No.		
3. Further observations, if necessary: Please note the change of telephone and facsimi	ile number.		
4. A copy of this notification has been sent to:			
X the receiving Office	X the designated Offices concerned		
the International Searching Authority	the elected Offices concerned		
the International Preliminary Examining Authority	other:		
The International Bureau of WIPO	Authorized officer		
34, chemin des Colombettes 1211 Geneva 20, Switzerland	C. Cupello		
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38		

091.763948

PATENT COOPERATION TREATY

PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

tion of Transmittal of International
Examination Report (Form PCT/IPEA/416)
Priority date (day/month/year)
30/06/1999
national Preliminary Examining Authority
claims and/or drawings which have tifications made before this Authority PCT).
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/NO00/00228

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1.	the and	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:						
	1-1	3	as originally filed					
	Cla	ims, No.:						
	1-2	4	as originally filed					
	Dra	awings, sheets:						
	1-4		as originally filed					
2.			uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.					
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:					
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pu	blication of the international application (under Rule 48.3(b)).					
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule					
3.	Witl inte	h regard to any nuc rnational preliminan	leotide and/or amino acid sequence disclosed in the international application, the vexamination was carried out on the basis of the sequence listing:					
		contained in the int	ernational application in written form.					
		filed together with t	he international application in computer readable form.					
		furnished subseque	ently to this Authority in written form.					
	furnished subsequently to this Authority in computer readable form.							
		☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.					
4.	The	amendments have	resulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/NO00/00228

		the drawings,	sheets:
5.		established as if (some of) the amendments had not been made, since they have been rond the disclosure as filed (Rule 70.2(c)):	
		(Any replacement shi report.)	eet containing such amendments must be referred to under item 1 and annexed to this

- 6. Additional observations, if necessary: see separate sheet
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims

No: Claims 1-24 (no)

Inventive step (IS) Yes: Claims

No: Claims 1-24 (no)

Yes: Claims

No: Claims 1-24 (yes)

2. Citations and explanations see separate sheet

Industrial applicability (IA)

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

R It m I

Basis of the opinion

1. Claims 1-24 relate to a very large number of possible means and methods. In fact, the claims contain so many "or" and "and/or" options that a lack of clarity and conciseness within the meaning of Article 6 PCT arises to such an extent, that the international search authority found it impossible to perform a search for the while scope of the claims. Consequently, only a search for the means and methods mentioned in the description at page 8, ie. the embodiments according to figures 3 and 4, has been performed.

In accordance with Rule 66.1(e) PCT, the examination will be limited to the searched subject-matter. Unsearched subject-matter will not be examined within this procedure.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: EP-A-0 450 862 D2: WO-A-98/28320

- 2. Since the meaning of the present set of claims is unclear (cf. point VIII), a detailed reasoning concerning the novelty and inventive merit of the claimed subjectmatter is currently not possible. However, interpreting the claims in the light of the description, the following remarks are made:
- 2.1 Document D1 discloses an organic thin film element (eg. a TFT transistor, cf. column 10) comprising a substrate (11), a charge transfer layer (5) formed thereon, and an organic semiconductor thin film layer (12) deposited thereon.

This device appears to comprise all the technical features of claims 1-8.

EXAMINATION REPORT - SEPARATE SHEET

Furthermore, D1 also discloses the use of a carbon layer having a graphite structure as the charge transfer layer (cf. column 10, line 36), thereby anticipating the subject-matter of claim 10.

Finally, the method of forming the device (cf. column 10, line 33-38) appears to comprise all the technical features of claims 13-20 and 22.

- 2.2 Although the search report does not cite any document showing such a device, it is well known in the field to provide standard MOS transistors with silicided source and/or drain contacts by depositing a metal on the source/drain regions and subsequent heating, thereby forming a silicide layer as a reaction product between the source/drain material (silicon). The applicant's attention is drawn to the fact that this well-known process and the silicided MOSFET produced thereby falls within the subject-matter of claims 1, 10, 11, 12, 13, 22, 23, and 24.
- 2.3 Document D2 (cf. page 21, line 2-18) describes a process of assembling photonic components on a host substrate via an interlayer of complementary DNA molecules.

This process and the resulting device appear to comprise all the technical features of claims 21 and 9, respectively.

Re Item VIII

Certain observations on the international application

- 1. Claims 1-24 relate to a very large number of possible means and methods. The claims contain so many options that a lack of clarity and conciseness within the meaning of Article 6 PCT arises.
 - In particular, the claims contain many options of the type "Feature A or not A" (eg. "contacting or isolating", "organic or inorganic", "contact material or isolating material", "direct or indirect bond", "donor or acceptor"). The technical limitations implied by the combination of options remain unclear; the expressions could even be interpreted as imposing no technical limitations at all.



	For receiv	ing Office use	only	
Internation	al Application No.			
Internation	al Filing Date		·	
N	ceiving Office and	"PCT Internal	ional Applianta	,,

REQUEST	•				
	International Filing Date				
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PC"	International Application"			
· · · · · · · · · · · · · · · · · · ·	Applicant's or agent's file reference (if desired) (12 characters maximum)	Opti47PCT			
Box No. I TITLE OF INVENTION A means for organic or inorganic semicondu					
Box No. II APPLICANT	···	·.			
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of con address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	niry. The country of the of residence if no State	This person is also inventor.			
THIN FILM ELECTRONICS ASA	Telephon +47 2	3 23 84 40			
P.O.Box 1872 Vika N-0124 Oslo	Facsimile +47 2	No. 3 23 84 41			
Norway	Teleprinte	r No.			
State (that is, country) of nationality:	State (that is, country) of residence				
NO This person is applicant all designated all des	d States except the United St	NO the States indicated in			
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Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)				
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.) JACKSON, Thomas 1348 Deerfield Drive State College PA16801 U.S.A.	ntry. The country of the of residence if no State This p	person is: applicant only applicant and inventor aventor only (If this check-box as marked, do not fill in below.)			
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This person is applicant all designated all designate	d States except tates of America				
Further applicants and/or (further) inventors are indicated	n a continuation sheet.				
Box No. IV AGENT OR COMMON REPRESENTATIVE	; OR ADDRESS FOR CORRESP	ONDENCE			
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:					
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LEISTAD, Geirr I. of	Facsimile				
THIN FILM ELECTRONICS ASA P.O.Box 1872 Vika		3 23 84 41			
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Address for correspondence: Mark this check-box where	no agent or common representative is	has been appointed and the			

Continuation of Box No. III FURTHER APPLICANT(S)	ND/OR (FURTHER INV	/ENTOR(S)
If none of le lowing sub-boxes is used, the	is sheet should no linc	luded in the request.
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WANG, Jianna 5 Dolores Ave. #		applicant only
Waltham MA 02452 USA		x applicant and inventor
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Further applicants and/or (further) inventors are indicated on	another continuation sheet.	

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		TZ United Republic of Lanzania, UG Uganda, ZW Zimbaowe, and any other State which is a Contracting State of the Harare Protocol and of the PCT								
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-		DK Denmark, ES Spain, FT Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT								
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• Where the earlier application is Convention for the Protection of In	idustrial P	roperty for whi	ich th	at earlier application was fi	led (Rule 4.10(b)(ii)). See Sup	plemental Box.			
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Choice of International Search	ing Auth	pority (ISA)	Rec	west to use results of ear	lier search; reference to	that search /if an earlies			
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